

METHOD AND APPARATUS FOR RENDERING A CONTINUOUS TONE IMAGE
REPRESENTATION WITH MULTIPLE DIGITAL HALFTONING TECHNIQUES

Abstract of the Disclosure

A system for rendering an image representation is disclosed. The system includes a halftone processor; a printer interfaced to the halftone processor; and a software routine
5 operative on the halftone processor for a) classifying an input pixel value in either a first classification or a second classification, b) determining an output pixel value by error diffusing the input pixel value when the input pixel value is classified in the first classification, c) determining a
10 temporary output pixel value by stochastic screening the input pixel value when the input pixel value is classified in the second classification, d) determining an adjusted input pixel value based on the input pixel value, the temporary output pixel value and a weighting value, e) determining the output pixel
15 value by error diffusing the adjusted input pixel value, and f) rendering the output pixel value in the printer.

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